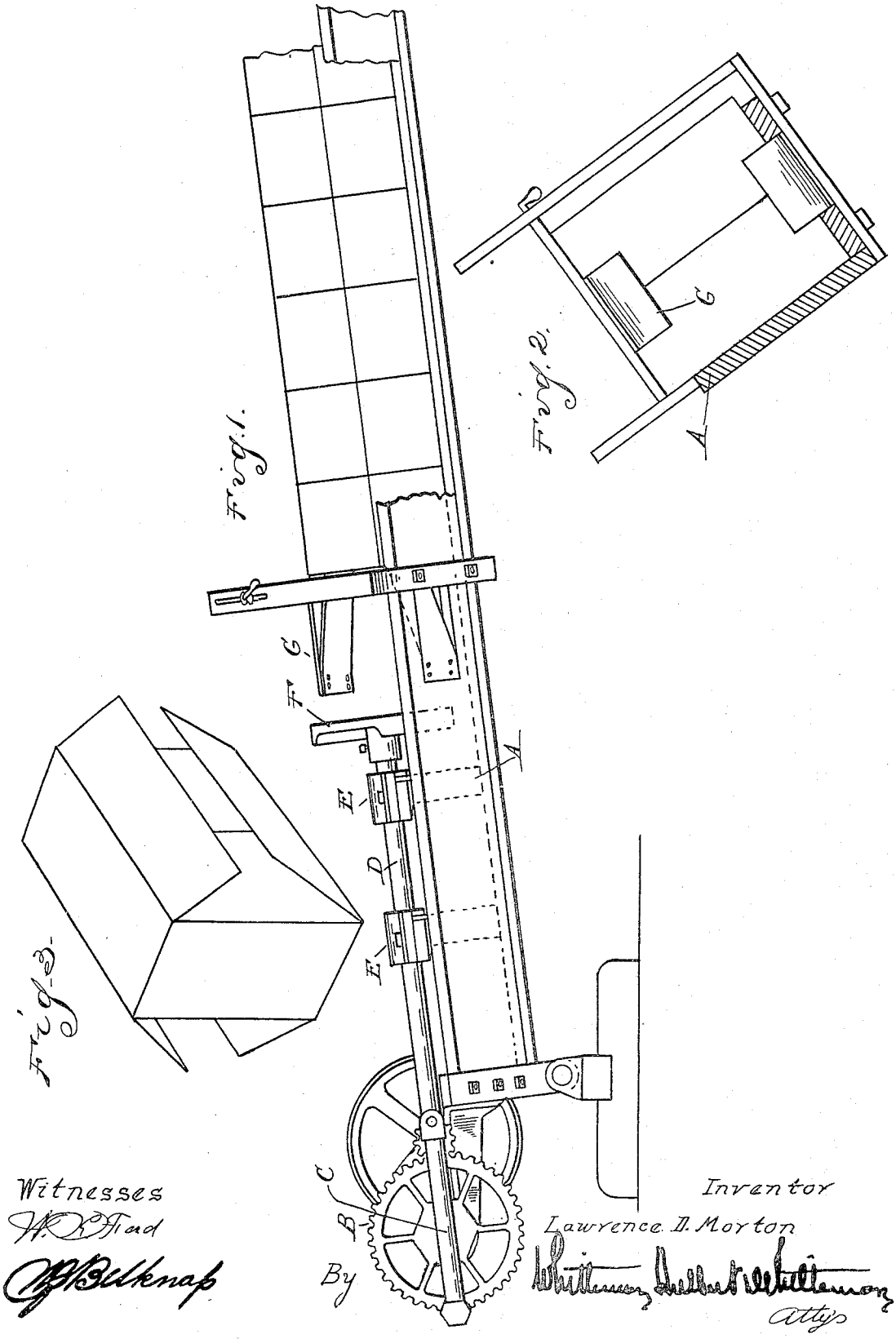
L. D. MORTON.

METHOD OF SEALING BOXES.

APPLICATION FILED MAR. 12, 1910.

1,144,773. Patented June 29, 1915.



Witnesses

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UNITED STATES PATENT OFFICE.

LAWRENCE D. MORTON, OF SANDUSKY, OHIO, ASSIGNOR TO THE HINDE AND DAUCH PAPER COMPANY, OF SANDUSKY, OHIO, A CORPORATION OF OHIO.

METHOD OF SEALING BOXES.

1,144,773. Specification of Letters Patent. Patented June 29, 1915.

Application filed March 12, 1910. Serial No. 548,935.

To all whom it may concern:

Be it known that I, LAWRENCE D. MORTON, a citizen of the United States of America, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Methods of Sealing Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to expedite the work of sealing paperboard boxes, and to this end, the invention consists in the construction as hereinafter set forth.

In the drawings—Figure 1 is a perspective view of the machine in which my improved method is carried out; Fig. 2 is a cross section illustrating certain parts of the machine; and Fig. 3 is a perspective view of one of the boxes to be sealed before it is engaged with the machine.

My improvement is intended for use in connection with paperboard boxes or cartons, in which goods of various kinds are packed for shipment. These boxes are generally provided with overlapping flaps, which are closed after the insertion of the article in the package, and it is the usual practice to seal the boxes by placing some adhesive material on the inner faces of the outer flaps, and then press them in contact with the inner flaps. In the sealing operation, it is necessary to hold the flaps in contact with each other for sufficient time to permit the adhesive material to set, and where this is done by hand valuable time is lost.

With my improved method, the boxes are first sealed, and are then successively placed in contact with a series of boxes previously sealed, whereby the latter form an abutment for holding the freshly sealed flaps closed. At the same time, each added box will feed the whole series forward, and when the point of disengagement is reached the adhesive material is fully set. The carrying out of this process is facilitated by the use of a machine constructed as follows: A is a trough-shaped guide arranged in a slight inclination from the horizontal. B is a crank or other mechanical member which is connected by a pitman C with a reciprocatory plunger D slidably secured in bearings E at one end of the trough. F is a follower head upon the plunger D, which is preferably approximately the size of the box to be sealed. G are latch dogs or detents arranged in rear of the follower and adjacent to the sides of the trough.

In operation, the motion of the crank B will reciprocate the plunger and follower F a distance somewhat greater than the width of the box to be sealed. The operator applies the adhesive material to the flaps of the box successively, and then places the box in the path of the plunger and follower F which in the forward stroke will press the box against the series of boxes previously sealed, and will simultaneously close the flaps upon both sides of the box. Before the return stroke of the plunger, the dogs G will engage with the rear face of the box, holding the flaps thereof from opening and the box from sliding backward in the trough. Thus one after another the boxes are sealed and the flaps held closed without any further attention of the operator.

What I claim as my invention is:

The method of sealing boxes having overlapping flaps, which consists in applying adhesive to one of the contacting surfaces of the overlapping flaps of each box, then placing the box in an inclined series of previously sealed boxes, and then in one operation overlapping the flaps of the box last added to the series against the front or rear face of the box, and displacing the entire series longitudinally and upwardly a certain distance, the contact of the boxes of the series with one another maintaining their flaps closed.

In testimony whereof I affix my signature in presence of two witnesses.

LAWRENCE D. MORTON.

Witnesses:

SIDNEY FROHMAN,

J. J. DAUCH.